

5' TG CAG CAG CAG AGG GAG ACC CGC GGC AAC CCC GGC AAC CCA GGG CTC GGC GTC GCT	11	20	29	38	47	56
GCC ACC ATG ACG GGA AGC AAT ATG TCG GAC GCC TTG GCC AAC GCC GTG TGC CAG	65	74	83	92	101	110
M T G S N M S D A L A N A V C Q						
CGC TGC CAG GCC CGC TGC TCC CCC GAG GAG CGC ATT GTC AAC AGC AAT GGG GAG	119	128	137	146	155	164
R C Q A R F S P A E R I V N S N G E						
CTG TAC CAT GAG CAC TGC TTC GTG TGT GCC CAG TGC TTC CGG CCC TTC CCC GAG	173	182	191	200	209	218
L Y H E H C F V C A Q C F R P F P E						
GGG CTC TTC TAT GAG TTT GAA GGC CGG AAG TAC TGC GAA CAC GAC TTC CAA ATG	227	236	245	254	263	272
G L F Y E F E G R K Y C E H D F Q M						
CTG TTT GCT CCG TGC TGT GGA TCC TGC GGT GAG TTC ATC ATT GGC CGC GTC ATC	281	290	299	308	317	326
L F A P C C G S C G E F I I G R V I						
AAG GCC ATG AAC AAC TGG CAC CCG GGC TGC TTC CGC TGC GAG CTG TGT GAT	335	344	353	362	371	380
K A M N N N W H P G C F R C E L C D						

FIGURE 1A

389	GTG GAG CTG GCT GAC CTG GGC TTT GTG AAG AAT GGC GGC AGG CAT CTC TGC CGG	407	416	425	434
V E L A D	D L G F V K N A G R H L C R				
443	CCT TGC CAC AAC CGT GAG AAG GCC AAG GGC CTG GGC AAG TAC ATC TGC CAG CGG	461	470	479	488
P C H N R E	K A K G L G K Y I C Q R				
497	TGC CAC CTG GTC ATC GAC GAG CAG CCC CTC ATG TTC AGG AGC GAC GCC TAC CAC	506	515	524	533
C H L V I D	E Q P L M F R S D A Y H				
551	CCT GAC CAC TTC AAC TGC ACC CAC TGT GGG AAG GAG CTG ACA GCC GAG GCC CGC	560	569	578	587
P D H F N C T	H C G K E L T A E A R				
605	GAG CTG AAG GGT GAG CTC TAC TGC CTG CCC ATC GAG GGC CGA GTG GTC AAC GGC GAG GCC CGC	614	623	632	641
E L K G E L Y C L P C H D K M G V P					
659	ATC TGC GGG GCC TGC CGC CGG CCC ATC GAG GGC CGA GTG GTC AAC GGC GTC CCC	668	677	686	695
I C G A C R R P I E G R V V N A L G					
713	AAG CAG TGG CAC GTG GAG CAC TTT GTC TGT GCC AAG TGT GAG AAG CCA TTC CTG	722	731	740	749
K Q W H V E H F V C A K C E K P F L					

FIGURE 1B

767	GGG CAC CGG CAC TAT GAG AAG GGC CTG GCC TAC TGC GAG ACT CAC TAC AAC	776	785	794	803	812
G H R H Y E K K G L A Y C E T H Y N						
821	CAG CTC TTC GGG GAC GTC TGC TAC AAC TGC AGC CAT GTG ATT GAA GGC GAT GTG	830	839	848	857	866
Q L F G D V C Y N C S H V I E G D V						
875	GTG TCG GCC CTC AAC AAG GCC TGG TGT GTG AGC TGC TTC TCC TGC TCC ACC TGC	884	893	902	911	920
V S A L N K A W C V S C F S C S T C						
929	AAC AGC AAG CTC ACC CTG AAG AAC TAA GAG TTT GTG GAG TTC GAC ATG AAG CCC GTG	938	947	956	965	974
N S K L T L K N K F V E F D M K P V						
983	TGT AAG AGG TGC TAC GAG AAG TTC CCG CTG GAG CTG AAG AAG CGG CTG AAG AAG	992	1001	1010	1019	1028
C K R C Y E K F P L E L K R L K R L K						
1037	CTG TCG GAG CTG ACC TCC CGC AAG GCC CAG CCC AAG GCC ACA GAC CTC AAC TCT	1046	1055	1064	1073	1082
L S E L T S R K A Q P K A T D L N S						
1091	GCC TGA AGG CCC TCT TGC GCA CTG CCT CTC GGC CCC TCC GCC TCC CCT CCT CCT	1100	1109	1118	1127	1136
A						

FIGURE 1C

1145 1154 1163 1172 1181 1190  
GCT GTC CAT GCT TGG CCC CCT CGT CCC CAT CCA CCT GTG CCC TCC GCA TCT TAC  
1199 1208 1217 1226 1235 1244  
CCT CCC TTT CTC CCT CAT TGC CTT CTC CCT TCC TGT TCC CTC ATC TCT GCC  
1253 1262 1271 1280 1289 1298  
TTC CCC ATG TCT CTC TCC TTG GCC GTG GCT TCT GTC TGT GAG GAG GCA GGA  
1307 1316 1325 1334 1343 1352  
GCT GGG GAG TGG GAG CCT ATG ACC CCA CGT CTG ACA GCC ATG TCC ACC TGT GCC  
1361 1370 1379 1388 1397 1406  
CAC AGC TTC CGC CCA CAG ACC TCC AGG GAC AGC AGG AAA TTG CAC CAC AGC TCC  
1415 1424 1433 1442 1451 1460  
CCG CCT GGC CTG GCC CTC CCC AGG CGG CTC AGT GGC TCA TGC TGT CCT GTG AGA  
1469 1478 1487 1496 1505 1514  
GCC CCT GCA GAG CGG CCC CAC TAA GCG CAT GTG GCT CCT GGG CTA CCC ACA  
1523 1532 1541 1550 1559 1568  
GCC AGG GCA GCC TGC TGG AGC CAC AGG GCC AGG GCC ATG CAG ATG GAG GCC TCT  
1577 1586 1595 1604 1613 1622  
GGG AGC CAC CTC CAA TCC CTC ACC ACT CAC TCA ACC AGT GGC ACA GTG TCC TTG  
1631 1640 1649 1658 1667 1676  
TGC CCA CAC TGA AGC AAG TCC TGC TGT CCA CAC CCA CAA GCT ACC TGG TCC AGG

FIGURE 1D

1685 1694 1703 1712 1721 1730  
GAC AGG ACC CAC CTC CCT CAT TCG GAA GGC CTT CCT GGA ATC CCT TGG CCT  
CCG CCC TCG GTT CCG CCC CGC CGC CCC TCT CCC CCC GAC CTT GGG GCT TGT GTC GAG  
1739 1748 1757 1766 1775 1784  
CCC TTG GGT GGG GCC AGG AGG AGG TGA TGG CGT CAG AGG AGG TGT GGT CAG AGG  
1793 1802 1811 1820 1829 1838  
TGA CTT CCC ACC TCC AGG GAG GAC GCT TCG TCT TCG GCC AGC GCA GAC CTG  
1847 1856 1865 1874 1883 1892  
TGA CTT GTT TGT TTG GGT CAC GCT TGC ACA ATG AAG GCT TGT TCA CAC AAA  
1901 1910 1919 1928 1937 1946  
GTG TTG AAA AAA AAA A 3  
1955

1	M T G S N M S D A L A N A V C Q R C Q A R F S P A E R I V N	3540806
1	- - - - - M A N A L A S A T C E R C K G G F A P A E K I V N	GI 516012
31	S N G E L Y H E H C F V C A Q C F R P F P E G L F Y E F E G	3540806
26	S N G E L Y H E Q C F V C A Q C F Q Q F P E G L F Y E F E G	GI 516012
61	R K Y C E H D F Q M L F A P C C G S C G E F I I G R V I K A	3540806
56	R K Y C E H D F Q M L F A P C C H Q C G E F I I G R V I K A	GI 516012
91	M N N W H P G C F R C E L C D V E L A D L G F V K N A G R	3540806
86	M N N S W H P E C E R C D L C Q E V L A D T G F V K N A G R	GI 516012
121	H L C R P C H N R E K A K G L G K Y I C Q R C H L V I D E Q	3540806
116	H L C R P C H N R E K A R G L G K Y I C Q K C H A T I D E Q	GI 516012
151	P L M F R S D A Y H P D H F N C T H C G K E L T A E A R E L	3540806
146	P L T F K N D P Y H P D H F N C A N C G K E L T A D A R E L	GI 516012
181	K G E L Y C L P C H D K M G V P I C G A C R R P I E G R V V	3540806
176	K G E L Y C L P C H D K M G V P I C G A C R R P I E G R V V	GI 516012
211	N A L G K Q W H V E H F V C A K C E K P F L G H R H Y E K K	3540806
206	N A M G K Q W H V E H F V C A K C E K P F L G H R H Y E R K	GI 516012
241	G L A Y C E T H Y N Q L F G D V C Y N C S H V I E G D V V S	3540806
236	G L A Y C E T H Y N Q L F G D V C F H C N R V I E G D V V S	GI 516012

FIGURE 2A

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Inventors: Lal et al.

**Title** ANTIBODY SPECIFICALLY BINDING HUMAN

## PINCH PROTEIN HOMOLOG

Serial No.: To Be Assigned

FIGURE 2B